

Calendar No. 615

115TH CONGRESS
2D SESSION

S. 2343

[Report No. 115–342]

To require the Federal Communications Commission to establish a task force for meeting the connectivity and technology needs of precision agriculture in the United States.

IN THE SENATE OF THE UNITED STATES

JANUARY 25, 2018

Mr. WICKER (for himself, Ms. KLOBUCHAR, Mr. DAINES, Mr. TESTER, Mrs. McCASKILL, Mr. GARDNER, Mr. HOEVEN, Mr. BLUNT, Ms. SMITH, Ms. BALDWIN, Mr. THUNE, Mrs. FISCHER, Mr. KING, and Ms. HEITKAMP) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

OCTOBER 2 (legislative day, SEPTEMBER 28), 2018

Reported by Mr. THUNE, with an amendment

[Strike out all after the enacting clause and insert the part printed in italic]

A BILL

To require the Federal Communications Commission to establish a task force for meeting the connectivity and technology needs of precision agriculture in the United States.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “Precision Agriculture
3 Connectivity Act of 2018”.

4 **SEC. 2. FINDINGS.**

5 Congress finds the following:

6 (1) Precision agriculture technologies and practices allow farmers to significantly increase crop
7 yields, eliminate overlap in operations, and reduce
8 inputs such as seed, fertilizer, pesticides, water, and
9 fuel.

10 (2) These technologies allow farmers to collect data in real time about their fields, automate field management, and maximize resources.

11 (3) Studies estimate that precision agriculture technologies can reduce agricultural operation costs by up to 25 dollars per acre and increase farm yields by up to 70 percent by 2050.

12 (4) The critical cost savings and productivity benefits of precision agriculture cannot be realized without the availability of reliable broadband Internet access service delivered to the cropland and ranchland of the United States.

13 (5) The deployment of broadband Internet access service to unserved and underserved cropland and ranchland is critical to the United States econ-

1 omy and to the continued leadership of the United
2 States in global food production.

3 (6) Despite the growing demand for broadband
4 Internet access service on cropland and ranchland,
5 broadband Internet access service is not consistently
6 available where needed for agricultural operations.

7 (7) The Federal Communications Commission
8 has an important role to play in the deployment of
9 broadband Internet access service infrastructure on
10 unserved and underserved cropland and ranchland to
11 promote precision agriculture.

12 **SEC. 3. TASK FORCE.**

13 (a) **DEFINITIONS.—**

14 (1) **IN GENERAL.**—In this section—

15 (A) the term “broadband Internet access
16 service” has the meaning given the term in sec-
17 tion 8.2 of title 47, Code of Federal Regula-
18 tions, or any successor regulation;

19 (B) the term “Commission” means the
20 Federal Communications Commission;

21 (C) the term “Department” means the De-
22 partment of Agriculture;

23 (D) the term “Secretary” means the See-
24 retary of Agriculture; and

(2) AGRICULTURAL TERMS.—For purposes of this Act, the Secretary shall define the terms “agricultural operations”, “cropland”, and “ranchland”.

9 (b) ESTABLISHMENT.—Not later than 1 year after
10 the date of enactment of this Act, the Commission shall
11 establish the Task Force for Meeting the Connectivity and
12 Technology Needs of Precision Agriculture in the United
13 States.

14 (e) DUTIES.—

15 (1) IN GENERAL.—The Task Force shall col-
16 laborate with the Secretary and public and private
17 stakeholders in the agriculture and technology fields
18 to—

(A) identify and measure current gaps in broadband Internet access service coverage of cropland and ranchland;

(B) assemble a comprehensive guide of all Federal programs or resources working to expand broadband Internet access service on unserved cropland and ranchland;

(C) develop policy recommendations to promote the rapid, expanded deployment of fixed and mobile broadband Internet access service on unserved croplands and ranchlands, with a goal of achieving reliable service on 95 percent of croplands and ranchlands in the United States by 2025;

(D) promote effective policy and regulatory solutions that encourage the adoption of broadband Internet access service on farms and ranches and promote precision agriculture;

(E) propose new rules of the Commission or amendments to existing rules of the Commission to achieve the goals and purposes described in subparagraph (C);

(F) recommend specific steps that the Commission and other Federal agencies should take to obtain reliable and standardized data measurements of broadband Internet access service coverage as may be necessary to target funding support to unserved croplands and ranchlands in need of broadband Internet access service; and

(G) recommend specific steps that the Commission should take to ensure that the ex-

1 pertise of the Secretary and available farm data
2 are reflected in developing Federal programs to
3 deploy broadband Internet access service infra-
4 structure and to direct available funding to
5 unserved croplands and ranchlands where need-
6 ed.

7 (2) CONSULTATION.—The Task Force shall
8 consult with the Secretary to develop recommenda-
9 tions for the Commission that utilize the expertise,
10 data mapping information, and resources of the De-
11 partment that the Department uses to identify crop-
12 lands, ranchlands, and other areas with agricultural
13 operations.

14 (d) MEMBERSHIP.—The Task Force shall be—

15 (1) composed of not more than 15 members
16 who shall—

17 (A) be selected by the Chairman of the
18 Commission in consultation with appropriate
19 staff of the Commission and with the Secretary;
20 and

21 (B) include—

22 (i) agricultural producers representing
23 diverse geographic regions and farm sizes,
24 including owners and operators of farms of
25 less than 100 acres;

(ii) Internet service providers, including regional or rural fixed and mobile broadband Internet access service providers and telecommunications infrastructure providers;

(iii) representatives from the satellite industry;

(iv) representatives from precision agriculture equipment manufacturers, including drone manufacturers, manufacturers of autonomous agricultural machinery, and manufacturers of farming robotics technologies; and

(v) representatives from State and local governments; and

(2) fairly balanced in terms of technologies, its of view, and fields represented on the Task ee.

19 (e) REPORTS.—Not later than 1 year after the date
20 on which the Commission establishes the Task Force, and
21 annually thereafter, the Commission shall submit to Con-
22 gress a report that details—

23 (1) the status of fixed and mobile broadband
24 Internet access service coverage of croplands and
25 ranchlands;

1 (2) the projected future connectivity needs of
2 agricultural operations, farmers, and ranchers; and
3 (3) the steps being taken to accurately measure
4 the availability of high speed broadband Internet ac-
5 cess service on croplands and ranchlands and the
6 limitations of current, as of the date of the report,
7 measurement processes.

8 (f) EXISTING FUNDS.—The Commission shall use ex-
9 isting funds of the Commission to carry out the Task
10 Force and the duties of the Commission under this sec-
11 tion.

12 (g) TERMINATION.—The Task Force shall terminate
13 on January 1, 2025.

14 **SECTION 1. SHORT TITLE.**

15 *This Act may be cited as the “Precision Agriculture*
16 *Connectivity Act of 2018”.*

17 **SEC. 2. FINDINGS.**

18 *Congress finds the following:*

19 (1) Precision agriculture technologies and prac-
20 tices allow farmers to significantly increase crop
21 yields, eliminate overlap in operations, and reduce
22 inputs such as seed, fertilizer, pesticides, water, and
23 fuel.

1 (2) These technologies allow farmers to collect
2 data in real time about their fields, automate field
3 management, and maximize resources.

4 (3) Studies estimate that precision agriculture
5 technologies can reduce agricultural operation costs
6 by up to 25 dollars per acre and increase farm yields
7 by up to 70 percent by 2050.

8 (4) The critical cost savings and productivity
9 benefits of precision agriculture cannot be realized
10 without the availability of reliable broadband Internet
11 access service delivered to the agricultural land of the
12 United States.

13 (5) The deployment of broadband Internet access
14 service to unserved agricultural land is critical to the
15 United States economy and to the continued leader-
16 ship of the United States in global food production.

17 (6) Despite the growing demand for broadband
18 Internet access service on agricultural land,
19 broadband Internet access service is not consistently
20 available where needed for agricultural operations.

21 (7) The Federal Communications Commission
22 has an important role to play in the deployment of
23 broadband Internet access service on unserved agricul-
24 tural land to promote precision agriculture.

1 **SEC. 3. TASK FORCE.**2 (a) *DEFINITIONS.—In this section—*3 (1) *the term “broadband Internet access service”*
4 *has the meaning given the term in section 8.2 of title*
5 *47, Code of Federal Regulations, or any successor reg-*
6 *ulation;*7 (2) *the term “Commission” means the Federal*
8 *Communications Commission;*9 (3) *the term “Department” means the Depart-*
10 *ment of Agriculture;*11 (4) *the term “Secretary” means the Secretary of*
12 *Agriculture; and*13 (5) *the term “Task Force” means the Task Force*
14 *for Reviewing the Connectivity and Technology Needs*
15 *of Precision Agriculture in the United States estab-*
16 *lished under subsection (b).*17 (b) *ESTABLISHMENT.—Not later than 1 year after the*
18 *date of enactment of this Act, the Commission shall establish*
19 *the Task Force for Reviewing the Connectivity and Tech-*
20 *nology Needs of Precision Agriculture in the United States.*21 (c) *DUTIES.—*22 (1) *IN GENERAL.—The Task Force shall consult*
23 *with the Secretary, or a designee of the Secretary, and*
24 *collaborate with public and private stakeholders in*
25 *the agriculture and technology fields to—*

1 (A) identify and measure current gaps in
2 the availability of broadband Internet access
3 service on agricultural land;

4 (B) develop policy recommendations to pro-
5 mote the rapid, expanded deployment of
6 broadband Internet access service on unserved
7 agricultural land, with a goal of achieving reli-
8 able capabilities on 95 percent of agricultural
9 land in the United States by 2025;

10 (C) promote effective policy and regulatory
11 solutions that encourage the adoption of
12 broadband Internet access service on farms and
13 ranches and promote precision agriculture;

14 (D) recommend specific new rules or
15 amendments to existing rules of the Commission
16 that the Commission should issue to achieve the
17 goals and purposes of the policy recomme-
18 dations described in subparagraph (B);

19 (E) recommend specific steps that the Com-
20 mission should take to obtain reliable and stand-
21 ardized data measurements of the availability of
22 broadband Internet access service as may be nec-
23 essary to target funding support, from future
24 programs of the Commission dedicated to the de-
25 ployment of broadband Internet access service, to

1 *unserved agricultural land in need of broadband*
2 *Internet access service; and*

3 *(F) recommend specific steps that the Com-*
4 *mmission should consider to ensure that the exper-*
5 *tise of the Secretary and available farm data are*
6 *reflected in future programs of the Commission*
7 *dedicated to the infrastructure deployment of*
8 *broadband Internet access service and to direct*
9 *available funding to unserved agricultural land*
10 *where needed.*

11 (2) *NO DUPLICATE DATA REPORTING.*—*In per-*
12 *forming the duties of the Commission under para-*
13 *graph (1), the Commission shall ensure that no pro-*
14 *vider of broadband Internet access service is required*
15 *to report data to the Commission that is, on the day*
16 *before the date of enactment of this Act, required to*
17 *be reported by the provider of broadband Internet ac-*
18 *cess service.*

19 (3) *HOLD HARMLESS.*—*The Task Force and the*
20 *Commission shall not interpret the phrase “future*
21 *programs of the Commission”, as used in subpara-*
22 *graphs (E) and (F) of paragraph (1), to include the*
23 *universal service programs of the Commission estab-*
24 *lished under section 254 of the Communications Act*
25 *of 1934 (47 U.S.C. 254).*

1 (4) *CONSULTATION.*—The Secretary, or a des-
2 ignee of the Secretary, shall explain and make avail-
3 able to the Task Force the expertise, data mapping
4 information, and resources of the Department that the
5 Department uses to identify cropland, ranchland, and
6 other areas with agricultural operations that may be
7 helpful in developing the recommendations required
8 under paragraph (1).

9 (5) *LIST OF AVAILABLE FEDERAL PROGRAMS*
10 *AND RESOURCES.*—Not later than 180 days after the
11 date of enactment of this Act, the Secretary and the
12 Commission shall jointly submit to the Task Force a
13 list of all Federal programs or resources available for
14 the expansion of broadband Internet access service on
15 unserved agricultural land to assist the Task Force in
16 carrying out the duties of the Task Force.

17 (d) *MEMBERSHIP.*—

18 (1) *IN GENERAL.*—The Task Force shall be—

19 (A) composed of not more than 15 voting
20 members who shall—

21 (i) be selected by the Chairman of the
22 Commission; and

23 (ii) include—

24 (I) agricultural producers rep-
25 resenting diverse geographic regions

1 *and farm sizes, including owners and*
2 *operators of farms of less than 100*
3 *acres;*

4 *(II) an agricultural producer rep-*
5 *resenting tribal agriculture;*

6 *(III) Internet service providers,*
7 *including regional or rural fixed and*
8 *mobile broadband Internet access serv-*
9 *ice providers and telecommunications*
10 *infrastructure providers;*

11 *(IV) representatives from the elec-*
12 *tric cooperative industry;*

13 *(V) representatives from the sat-*
14 *ellite industry;*

15 *(VI) representatives from preci-*
16 *sion agriculture equipment manufac-*
17 *turers, including drone manufacturers,*
18 *manufacturers of autonomous agricul-*
19 *tural machinery, and manufacturers of*
20 *farming robotics technologies; and*

21 *(VII) representatives from State*
22 *and local governments; and*

23 *(B) fairly balanced in terms of technologies,*
24 *points of view, and fields represented on the Task*
25 *Force.*

1 (2) *PERIOD OF APPOINTMENT; VACANCIES.*—

2 (A) *IN GENERAL.*—A member of the Com-
3 mittee appointed under paragraph (1)(A) shall
4 serve for a single term of 2 years.

5 (B) *VACANCIES.*—Any vacancy in the Task
6 Force—

7 (i) shall not affect the powers of the
8 Task Force; and

9 (ii) shall be filled in the same manner
10 as the original appointment.

11 (3) *EX-OFFICIO MEMBER.*—The Secretary, or a
12 designee of the Secretary, shall serve as an ex-officio,
13 nonvoting member of the Task Force.

14 (e) *REPORTS.*—Not later than 1 year after the date
15 on which the Commission establishes the Task Force, and
16 annually thereafter, the Task Force shall submit to the
17 Chairman of the Commission a report, which shall be made
18 public not later than 30 days after the date on which the
19 Chairman receives the report, that details—

20 (1) the status of fixed and mobile broadband
21 Internet access service coverage of agricultural land;

22 (2) the projected future connectivity needs of ag-
23 ricultural operations, farmers, and ranchers; and

24 (3) the steps being taken to accurately measure
25 the availability of broadband Internet access service

1 *on agricultural land and the limitations of current,*
2 *as of the date of the report, measurement processes.*

3 *(f) TERMINATION.—The Commission shall renew the*
4 *Task Force every 2 years until the Task Force terminates*
5 *on January 1, 2025.*

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